In 41 dr. Swarth 9. #13. Propose March 8 1/1/2/2

Inaugural Chay on.

Lynanche Frachealis.

by

George Smith.

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Pennsylvania.

"Unlip we can form a theory without higherhesis, we had better confine owners to the more relation of facts!"

Buf bhem Die.

An Efsay &c.

This disease is in the clap province and or phlagmana, of the arrangement of bullow. Socreting to his definition, it consists, in an in flammation of the glothis, laryne, or upper part of the tracher, whether it affects the more branes of these parts, or the muscles adjoining from what will fellow, this definition will be found deficient in more than one particular

To this disease carious other appellations have been given, by the different writers who have treated of the subject. This coled, sufreasies tridula, angina principa; alluna infantum, morbus strangulatorius; equanche stridula; angina chidemica; angina helypera sive membranava; periputummia trachealis. In popular language it is lest known by the ... name of vowe, though several others expressive



of some of its most prominent symptoms have been given to it; as hives which is a corruption of heaves; the heaving of the lights; the cheak or stuffing, te. Some late writers have adopted the little, Grachitis, as harmonizing best with our medical nomenclature. This term, though expressive of the most ordinary nature of the disease, is objectionable as note embracing all its forms; for it will frequently terminate without any evidence of inflammation being present. To include all the phenomena presented in croup, under a termo implying inflammations of the trachers, would be giving too wide a range to medical generalization Might we not with equal propriety, apply the term, Enteretis, to most of the different kinds of colie, as that of trachilis, to a spasmodic case of

Cynanche Trachealis has mostly been con-



sidered as a disease of moderno times, but profelsor Chapman is of opinion, that some of the older authorities meant this complaint, in when speaking of a very fatal species of an gina, without swelling of the throat. It is said to have been particularly noticed so early as the year 1/49, by one Martin Chisi an Italian physician; and profesor Chapman tells is in his between that he founds a distinct account of it in one of the earliest volumes of the transactions of the royal society of London. Then writer who is an obscure practitioner, describes it as a new complaints, suddenly appearing in Cornwal, and committing very considerable ravages among the children of that place. In. fesor Home of Edinburgh published a correet account of the disease in 1765, and sin years afterwards the valuable essay, of the venvenerable De Bard of New York appeared on the



same subject.

ned to children under twelve years of age, and that it rarely attacks them before they are wom a number of well authenticated cases of it at tacking adults, and also of infants within the month. Profesor Hosack of Sow Work says, he never visited a child with it is wards of twelve years of age, except it had suffered from previous attacks . _ As children under that age, are by far the most liable to the disease, it is probable that all who pass it without an at tack, will be exempt from it during the remain der of their lives. Some writers let the period of life which renders the system insusceptible to an attack, at puberty, and refer the cause to a change in the parts constituting the seat of the disease, denoted by a change in the ..



some which lakes il are at that time. Mithout wate it is a change in the parts constituting the seat of the diman, which diminishes the susceptibile ity to it, but it is not that change inneed to the change in the reise; for physiologists till as that this chiefly consists in an intargement of the rima-glottidis, and a lengthening of the trackia.

Some authors have divided croup into the species, so, idiopathic and symptomatic. The sums to be reason for this divifien, for then are several easis on records, when it was the consequence of other previous diseases. I thus cheenes "Thave seen it accompany as well as succeed, the small pox, meables, searlet form, and apthous sone throat." Besides Rush, we have other of equal authority, who corrected his cheened into spasmodic and instance to be a divided into spasmodic and instance.



matery. This division, through of no practical importance, is nevertheless pretty well stablished. The slow process of inflammation, make be inadequate to the production of such victors. Symptoms, in so there a time, as we sue sum times induced by a sudden attack of croup. Its describes of these who have deed in the confirmal stage of the descriptions of the processes; for none of the plant namena of inflammation are to be found.

Causes.

Eunanch Grachealis, by some westers, is allowed to be contagious. When it is symplomatic of a contagious disease, surhaps it may be transfered to another through that medium as a wishicle of communication; but that idiopathic orcup over depends upon contagion for its cause, there are not the slightest grounds to believe. I seems, however, to be procular to



seme families of children, and presently is hered tany, but this is not always the can, for how me was present to be a family suffer from it, when the predipention could not have been derived from either parent — they more having suffered from the complaint. I hildren whe had been attack, are very liable to its returns.

A celd and moist atmosphen sam gonerally to be the exciting cause of this disease, and therefore, it is more aft to occur in winter and spring than any other season of the year. For the same neason it is more prevalent on the margin of the sea, and in marting situations, than in more elevated larger sure, yet sometimes it presents diely without any appropriate cause. It is said to have occasionally provailed as an epidemic. It is also endomial to particular places on the



sea boards, and its extent is often very limited. It is said to be very common at Sills But while the city of Ballimore is abmost or empt from it:

dymploms.

A day or two previous to an attach the child appears drowsy, stupide, and fulful; its eyes are suffersed and heavy, and there is also a procelear dry cough: this after some piration takes Thace, and every parenysm produces great agitation. Tebrile symptoms now arise, the face becomes flushed, the skin het and dry, and the eyes are protuberant and annious. As the disease advances, the respiration becomes more difficult, and the child in its agony, convulsively throws a back its heads to prevent suffocation The Julse is quick and irritated, The child is



very redless and uneasy, and sums to ensurionce the greatest degree of underhedness without

suffering any very positive pain.

The neite preduced by engling is very proudier, and has been company to semithing between the backing and velying of a dog, and the respiration is free femide with a hising noise as if the traches was to be with some soft spage, substance, and eithough to resemble the sound produced by fricing a pitter up a dry humb.

In a great number of cases the disense does not make its attack thus show and uniform. In these cases the complaint mostly comes on at night. After enjoying for some lime, a sound and undisturbed repose, the child will be waked up to experience all the wrotched-ness above described, without any from onitory symptoms, or previous enfocuse to itso



dinary causes. Profesor Chapman observes that "cases of this kind are probably dependent on speaking, and will terminate falally in a very shoot time where relief is not afforded When this high degree of Strasm does not me duce a fatal termination in to short a time, it will not fail to excite inflammation and when this has taken place the liver forms of the disease may be considered as the same.

The seat of the disease is now in the large and where hast of the tracker, but if heremisted to go on for time or fifteen hours, the broncher, and over the substance of the long become affected. The inflamentation in their parts is subject to all the terminations tracked that of other macus surfaces is liable; and according to the termination, we will have the lungs engaged with mucus, coagulated lymph, pus, or even blood. The coagulated



membrane, as it does in all other muccus sur-Jaces .- The entension of the disease to the lungs may depend upon the continuous inflamma tion, but, from the slowners of that process in mucous membranes generally, and from the short time in which these organs will sometimes become involved, I was led to the conjecture, that it might be owing to the great difficulty they enperienced in enecuting their function, from the constriction of the glottis. If hen the disease has reached the become livid, the eyes are prominent and inflamede, and there is a circumseriled blush on each check - the whole surface becomes motthede, and there is a wild and anxious expression of countenance; the pulse is full and disturbed, and the respiration exceedingly dif-

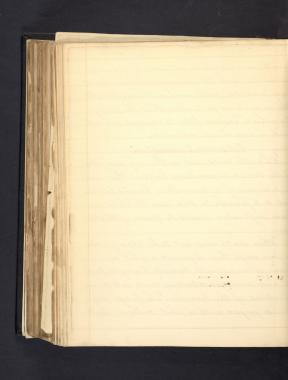


ficult and laterious, or, when the child is about to sink the represent herms more case, and the pulse weak and irregular. Ill the tymptems go to thou; that the proofs by which trinous blood is changed into an inal, is very much disturbed.

Post-mortin Examinations.

When the child dies in the very early stop of the disease, as semulimes happens, there is no appearance of inflammation having lunders ent, to be founder. In then cases the child dies from sufficialien caused by spain of the glotte.

When death dees not take place for this or four days, there is found a white monbrane of considerable timesty, Sining the track as, and sometimes extending down into the saw ifications of the bonehia. The lungs are found garged with a white muchid mat-



to semetimes mined with put and coaquilated typesh or they are conquited with blood ferming the appellite condition of then organs. They we tells us that he found the right awiele of the heart and the superior care turget with blood, as if the initalisty of the heart and general system had been gradually exhausted by the fereing had been gradually exhausted by the fereing respiration through the tube of the windpipalished was progressively diminished in capa-

Grem this account it will appear that death is occasioned by sufficialien, either of the from spasm causing constriction of the spectus, or from the membrane closing that of the lungs, from the from a prominating the flood, which is and thirdly promined to the stand is sufficiently that change which is sufficiently to its evolution. The latter is by far the mest common cause of death bryne



says lex to one . This shows us the gnat maple of early arresting the progress of the disease.

Diagnosis.

Creup may very readily be confounded with eynanche laryngea. Indeed it was not until very lately that a diagnosis was established between them . In oynanche laryngea there is a dificult and painful deglutition, with a swelling of the fauces; the voice is entremely house, or reduced to scareby an audible whisper - in cynanche truche liar, so that if once heard, could hardly ming a diagnosis, is the different periods of life they generally appear the one being almost exclusively confined to children, a



while the father rarely attacks them.

from acute asthma by the following diagnosticks, which are taken from "Thomas practice! _ He or no cough. In croup there is seldom or over any remission, while in the latter it is ease, and it is attended with some evacua-In croup the pulse is strong with much fevoice shrill and small; in acute asthma, the pulse although perhaps equally quick, is less full, the wrine is limpide, and the voice croaking and deep.

It is always of importance to distinguish the nature of the congestion which takes place



in the latter stages of the disease_ whether it be catarrhus notha. When the engogement is san dows discharge, and what best distinguishes this state of the lungs, is the entire absince of wheezing. In the other state there is a cough with some digree of enpectoration, and some times a considerable discharge of vicido mucus, , which latter occuring well marks the nature of the complaint. The apoplectic condition of erable De Bard of New york in his essay in croup before adverted to: he observed, that he has found the pulmonary organs so dense and solid, that they enhibited the appearance of the structure of the liver! For the necessity of distinguishing this state of things, and for the treatment adapted to it, The-

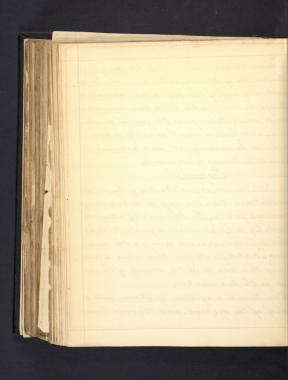


live we are intirely indelted to the profesor of the practice of medicine, in this university. In the practice of my of the riserra, and especially he lungs, he consider the blood then accumulated as so much taken from the general circulation, and hence a small quantity drawn would be sensibly felt, and perhaps to fullowed by serious consequences.

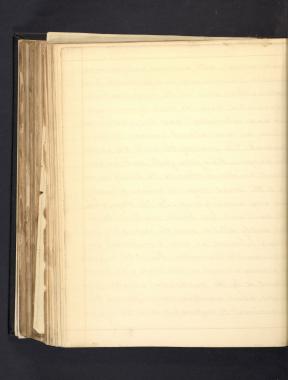
Prognosis.

De Thomas in his Practice of Physic flat we that more than one half of the cases forup tominate fatalle. In this country allost the mortality is by no means so great. Perhaps this difference depends more on the measures adopted for its own, than when any alforence there may be in the severity of the distance in the two countries.

When there is a expation of spasm, with a relief of the dyspnaa, and the voice becomes



Voration, we may rely on a favourable termi nation. But when all the symptoms become aggravated, when the pulse becomes ineqular and intermittent, and the expectoration ceases, we may almost consider the case as desperate. The younger the child the greater the danger. When from feelle and inappripriate practice or otherwise, the disease has run on to the second stage, the chances of recovery dingly baborious, we may prognosticate an unfarourable termination. Almost the only chance of recovery we have in this stage of the com plaint, is by the mechanical operation of an cometic, which sometimes removes removes the empediment to respiration, and thereby per



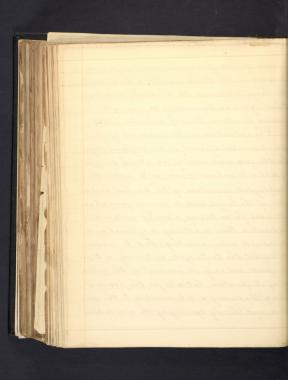
mitting the lungs to renew their accountened function of decarbening the blood, which is so openlial to its circulation. Indeed so ran is recoong from this stage of crown, that we need not export its Professor A crack observes What it might almost be denominated the falal stage? When the child is about sinking under the discore, then pivalien will become nother more easy, but the

Greatment.

Among the wide range of divases to which it is a property observed, there is not one perhaps, which excites so much alarm in parents, or which demands such betward de cided measures on the part of the physician as a severe ease of orough. There is no time for delay, but from the continuance of high inflammatory a other, we should have coaquialed in



breaded in this disease _ or lest it be entended to the lungs producing the apoplectic condition of hose organs, or, terminating in some of the or-Linary secretions, forming calarrhus nothers The indications in the treatment of croup we somewhat different in the different stages. in the commencement of an allack, our diet is either to subdue spasm, or to restore the suppressed secretions of the traches and sur face of the lungs, and to prevent general exestement from taking place. To answer this endication there is nothing so efficient as co-Sious and active vomiting. And to produce this effect the tastarized antimony is to be wefereds, not only on account of the certain to of its operation, but also for the power it has of producing a determination to the surface, and thereby equalizing the circulation.

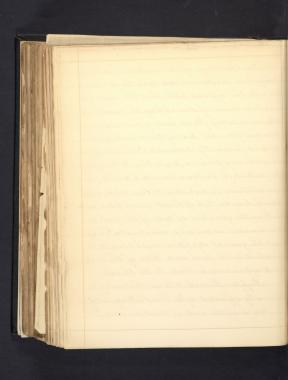


more active a little ipecacuanha and calond may be united with it. At the same time the child should be placed in a warm bath to assist the operation of the emetic. Comiting, to affords relief, if timely employed. But if time, or only aggrarated by a multitude of fam in, and a general excitement of the system has and other remedies should be employed.

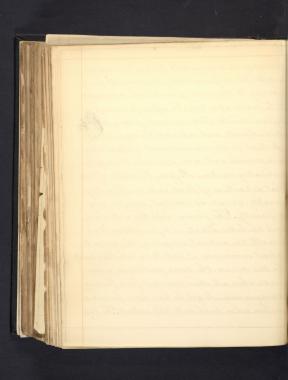


ritation from the Seat of the disease, are loudwell as the operation of some of the most aclive remedies, as purging, remiting to. To afapplied to the back and sides of the neck

Professor Herack tells us that relief is generally affected after blood litting, but it is often descriptive and of short duration. The



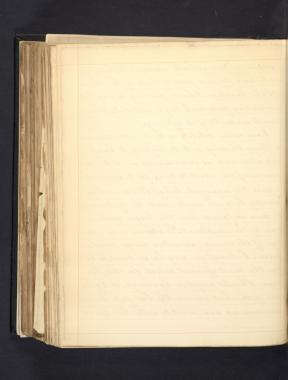
ifice . Small and repealed bleedings are ineffectual in the commencement of almost all arespiratory system. Profeser Chapman observes, that detractions of bloods, in a small or large quantity, operate as remedial processes very differently. The former about the action only, subvert or overcome it, and to re-establish halth In this disease, the same gentleman recommends, where all other remedies fail, bleeding ad deliquium animi. As yet he has never known a



gestion of this valuable remedy, he achoeuted, is to have derived from Groviek of Steandria. Of the practice I know nothing myself, but, iminating from such high authority there

can be no doubt of its efficacy.

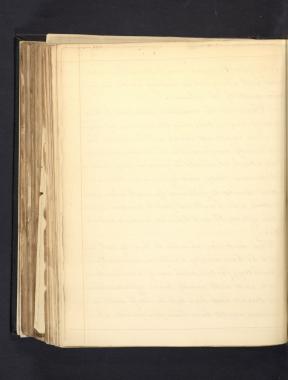
Even where debility is to be apprehended, a large bleeding is to be prefered to small & repealed ones, as economising most the resources of the constitution; for to complete a cure the aggregate loss of bloods will peountly be much greater, and the system will be more impaired from the longer continuance of the complaint. To remove every vestige of the disease an active purge should be given . Calomel in very large doses, is by far the most efficient article for this purhave. Should cough, or hoursness, or tight nep of the chest remain, the best expector ant medicine we can resort to is the Rive syrup



of Profesor Cove, in small down This medicine will also a first in keeping up the imprefsion made by the calemet.

These are the remedies a dapled to bade cases of every—but, when the alread is left viden the already select the caly remedy never party. In the commencement of an attack, it should be given in large desis, it is forwards, this operation should be fellowed by small and repeated dead, which will not fail to produce a purpose desir, which will not fail to produce a purpose desire effect. It will likewise promote expectation

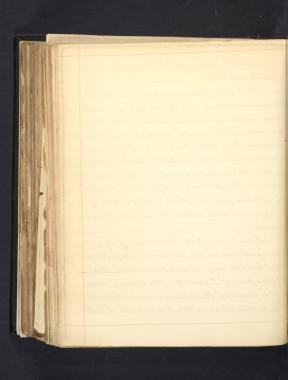
This medicine should be kept by all toreals who have cropy children, especially in the country; for this, when early administred, is safe, and will mostly prove effectively who if the disease had been left to itself until a physician could have been procured, it a



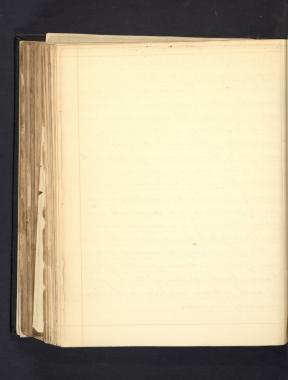
might baffle all his efforts, or require all his shell to subvert.

Much a paraficitia, campher to have leas seconmonded in this disease with a view to their antispasmodic powers; but here they are not entitled to the slightest confidence. Wherever they have been used, it has been a attended with the greatest falality; so much so, that their employments has been one great cause for this disease being placed among the observing midiroum. Opium has alle bunom of placed, but it is entitled to no more of our contidence.

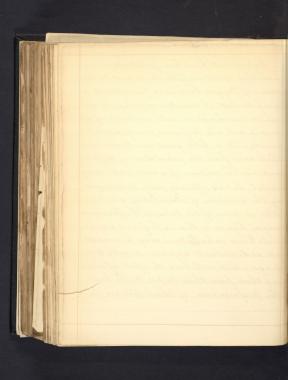
I next some to the treatment of cynenche trachealis in its advanced stage. From what has been said it will be proceed, that at this period I consider the disease as one of the forms of Peripneumenia notha-sither, a congestion of the lungs with bloods



tion, blood is to be drawn cautiously. We draw

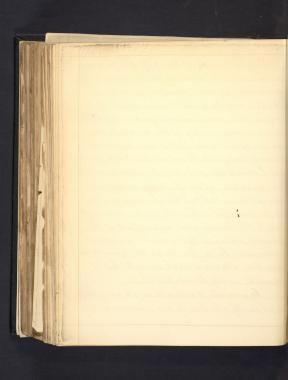


Expectorants have been found useful in loth these conditions of the lungs; and the hive syrup of Profesor Cone may be considered among the best. A decoction of polygala senega in combination with cartonate of ammonia, will also be found a very useful a semedy. Not a little good can be derived in these cases from the inhabation of different vapours. The vapour of warm water is very useful, but its efficacy may be increased by the addition of stimulating articles, as other or some of the balsams. Hoffmans an adyne liquor will also be found very useful. These inhallations may be consideredo as stimulants appliede directly to the lungs; which will have the effect of arous ing them from their torpor, to the heal-Thy performance of their proper fund



Profesor Frances of New- Mork has succeeded mechanical operation operation of emoties. How get I think the practice promises monthan the operation of trachectomy, and should trachea, which is by no means a common occurrence. In a few cases the operation has been attended with success, but it -

by nanche trachealis, in its early stage is as easily checked by our remedies as any



other acute disease; but if the alarming symptems have continued, without mitigation, for six or eight hours, we may generally a coloulate on fatal terminalism.

The breatment I have adopted, it will be proceeded, differs but little from that neonmended by the profesor of practice in this university. Indeed it would be impossible to differ from him meterially without departing from general principles and throwing myself on the bewildering read of empiricism.

